

### **ABSTRACT OF THE DISCLOSURE**

A line start reluctance synchronous motor includes: a single phase stator arranged at an inner circumferential surface of a motor body and on which a main coil and a sub coil are wound; a magnet unit free-rotatably arranged along an inner circumferential surface of the stator in order to maintain an air gap with the stator; and a cage rotor provided with a rotation shaft at a center portion thereof to be rotatable along an inner circumferential surface of the magnet unit.